

AMENDMENTS TO THE ABSTRACT:

Please amend the application to include the following Abstract:

ABSTRACT

As shown in Fig. 1, a position detector (10) includes: an object to be detected having a pattern (2) formed for generating a position signal; and a sensor (3) for detecting the position signal according to the pattern (2) by receiving an electromagnetic wave generated on the object (1) by light
5 irradiation. The pattern (2) is formed in a gradation shape visibly or invisibly so that an electromagnetic wave having a wavelength continuously different depending on the position on the object (1) can be sent to the sensor (3). This enables detection of an absolute angle of a rotary object and an absolute position on an XY plane with a simpler configuration, simplifies the device
10 assembly, and reduces the device size.